

SUSTAINABLE MATERIALS, PROCESSES AND SYSTEMS FOR ENERGY TRANSITION

DM 352- Sequestration and utilization of CO₂ from combustion process of thermal power plants

Funded By	UNIVERSITA' DEL SALENTO [P.iva/CF:00646640755] MINISTERO DELL'UNIVERSITA' E DELLA RICERCA [P.iva/CF:97429780584]
Supervisor	LAMBERTI ANDREA - andrea.lamberti@polito.it
Contact	Arturo de Risi, arturo.derisi@unisalento.it
Context of the research activity	The Ph.D. aims to develop new knowledge on sequestration and utilization of CO ₂ from combustion process of thermal power plants
Objectives	<p>Scholarship funded in the frame of DM 352/2022 by DITNE/Unisalento/MUR CUP: E12B22000920005</p> <p>Main seat to carry out the research: University of Salento (Lecce) – DITNE (Brindisi)</p> <p>Supervisor: Arturo, de Risi (arturo.derisi@unisalento.it)</p> <p>Carbon capture, utilization and storage (CCUS) is considered as one of the key strategies for mitigating climate change. Carbon dioxide utilization (CCU) is obviously more consistent than carbon capture and sequestration (CCS) since CCS is expected to incur additional costs for capture, transportation and injection of CO₂. Besides, CCU adds value to the captured carbon and can partially replace fossil reserves.</p> <p>Therefore, the Ph.D. aims to develop new knowledge on sequestration and utilization of CO₂ from combustion process of thermal power plants.</p>
Skills and competencies for the development of the activity	Preferrable degree in Industrial Engineering, Chemical Processes, Material Science